3-D Printed Habitat - Design Competition

Completed Technology Project (2015 - 2015)



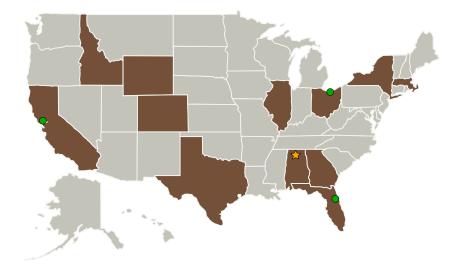
Project Introduction

The 3D-Printed Habitat Challenge seeks to develop the fundamental technologies necessary to manufacture habitats using indigenous materials, including recycled materials. The long-term vision is that habitat-manufacturing machines could someday be deployed for the Moon, Mars or beyond to autonomously prepare shelters for humans. The Design Competition is an architectural design activity which invites participants to design a habitat which utilizes additive construction advantages over traditional construction.

Anticipated Benefits

The long-term vision is that habitat-manufacturing machines could someday be deployed to the Moon, Mars or beyond to autonomously prepare shelters for the human explorers who follow.

Primary U.S. Work Locations and Key Partners





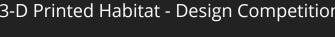
3-D Printed Habitat - Design Competition

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations	
and Key Partners	1
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Project Website:	3
Technology Areas	3



3-D Printed Habitat - Design Competition





Completed Technology Project (2015 - 2015)

Organizations Performing Work	Role	Туре	Location
☆Marshall Space Flight Center(MSFC)	Lead Organization	NASA Center	Huntsville, Alabama
America Makes	Supporting Organization	Industry	
• Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California
Department of Defense(DoD)	Supporting Organization	US Government	Washington, District of Columbia
Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio
Kennedy Space Center(KSC)	Supporting Organization	NASA Center	Kennedy Space Center, Florida
United States Agency for International Development(USAID)	Supporting Organization	US Government	Washington, District of Columbia

Primary U.S. Work Locations			
Alabama	California		
Colorado	Florida		
Georgia	Idaho		
Illinois	Massachusetts		
New York	Ohio		
Texas	Wyoming		

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Marshall Space Flight Center (MSFC)

Responsible Program:

Prizes, Challenges, and Crowdsourcing

Project Management

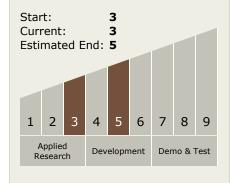
Program Director:

Amy P Kaminski

Program Manager:

Monserrate C Roman

Technology Maturity (TRL)





3-D Printed Habitat - Design Competition

Completed Technology Project (2015 - 2015)



Project Website:

https://www.nasa.gov/directorates/spacetech/home/index.html

Technology Areas

Primary:

- TX07 Exploration Destination Systems
 - ☐ TX07.2 Mission
 Infrastructure,
 Sustainability, and
 Supportability
 - ☐ TX07.2.3 Surface
 Construction and
 Assembly

